

Docket No.: 00124

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
)	
Roberto Aiello et al.)	
)	
Serial No.: 10/820,348)	
)	Art Unit: 2637
Filed: April 7, 2004)	
)	
For: ULTRA WIDE BAND)	Examiner: Sam K. Ahn
TRANSMITTER)	
)	
)	

Carlsbad, California
February 15, 2005

MAIL STOP AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Dear Sir or Madam:

In accordance with 37 C.F.R. § 1.56, Applicants make the documents listed on the enclosed PTO/SB/08 form of record in the above-identified application. In accordance with 37 C.F.R. § 1.97, this statement is not to be construed as a representation that a search has been made, and is not a representation that the information cited is effective as prior art to the application or is material to patentability.

02/22/2005 CCHAU1 00000120 10820348

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Copies of the U.S. patents and non patent literature listed on the enclosed form PTO/SB/08 are not enclosed, in accordance with the waiver of the requirement of 37 C.F.R. § 1.98(a)(2)(i) for submitting a copy of each cited U.S. patent and U.S. patent application

publication for all U.S. national patent applications filed after June 30, 2003 that appears in the Official Gazette Notice (Week No. 31) dated August 5, 2003 and entitled "Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications Filed After June 30, 2003."

However, the three (3) foreign patent documents and the ten (10) non-patent literature documents listed on the PTO/SB/08 form are included for review and consideration.


The U.S. and foreign, patents and published patent applications, and the non-patent literature listed on the enclosed PTO/SB/08 form may be cited in several of the following patent applications, which may be related to the present application: Serial No. 10/427,895, filed April 30, 2004; Serial No. 09/393,126, filed September 10, 1999; Serial No. 09/393,122, filed September 10, 1999; Serial No. 10/611,199, filed June 30, 2003; Serial No. 09/480,837, filed January 10, 2000; Serial No. 10/623,061, filed July 18, 2003; Serial No. 09/603,310, filed June 21, 2000; Serial No. 09/599,973, filed June 21, 2000; Serial No. 09/599,968, filed June 21, 2000; Serial No. 09/599,969, filed June 21, 2000; Serial No. 09/949,256, filed September 7, 2001; Serial No. 10/924,143, filed August 23, 2004; Serial No. 09/710,065, filed November 9, 2000; Serial No. 09/788,295, filed February 16, 2001; Serial No. 09/805,735, filed March 13, 2001; and Serial No. 10/238,995, filed September 9, 2002.

This Supplemental Information Disclosure Statement is accompanied by the requisite fee as set forth in 37 C.F.R. § 1.17(p) in the amount of \$180.00.

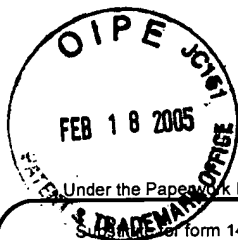
It is respectfully requested that these documents be (1) fully considered by the U.S. Patent and Trademark Office in the examination of the above-identified application; and (2) printed on any patent(s) that may issue from this application. It is also respectfully requested that a copy of Form PTO/SB/08, as considered and initiated by the Examiner, be returned to the undersigned with the next communication in accordance with M.P.E.P. § 609.

Respectfully submitted,

February 15, 2005
Date



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PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

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Art Unit	2637
Examiner Name	Sam K. Ahn
Attorney Docket Number	00124

Sheet 1 of 6

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 3,668,639	06-06-1972	Harmuth	
		US- 3,678,204	07-18-1972	Harmuth	
		US- 3,875,524	04-1975	Harzer et al.	
		US- 4,232,339	11-1980	Smiley et al.	
		US- 4,506,267	03-19-1985	Harmuth	
		US- 4,574,378	03-1986	Kobayashi	
		US- 4,587,494	05-06-1986	Widler	
		US- 4,644,534	02-1987	Sperlich	
		US- 4,651,152	03-17-1987	Harmuth	
		US- 4,672,608	06-1987	Ball et al.	
		US- 4,743,906	05-10-1998	Fullerton	
		US- 4,763,325	08-1988	Wolfe et al.	
		US- 4,813,057	03-14-1989	Fullerton	
		US- 5,134,408	07-28-1992	Harmuth	
		US- 5,148,174	09-15-1992	Harmuth	
		US- 5,153,595	10-06-1992	Harmuth	
		US- 5,159,343	10-27-1492	Harmuth	
		US- 5,307,081	04-26-1994	Harmuth	
		US- 5,334,975	08-02-1994	Wachob et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		WO 01/93434 A2	10-06-2001	Rofheart et al.		
		WO 02/31986 A2	04-18-2002	McCorkle et al.		
		EP 0 307 962 B1	03-22-1989	Sonetaka		

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Sheet **2** of **6****U. S. PATENT DOCUMENTS**

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		Number-Kind Code ² (if known)			
		US- 5,365,240	11-15-1994	Harmuth	
		US- 5,493,691	02-20-1996	Barrett	
		US- 5,519,400	05-1996	McEwan	
		US- 5,523,758	06-04-1996	Harmuth	
		US- 5,586,145	12-17-1996	Morgan et al.	
		US- 5,592,177	01-07-1997	Barrett	
		US- 5,594,738	01-1997	Crisler et al.	
		US- 5,610,907	03-11-1997	Barrett	
		US- 5,675,388	10-1997	Cooper	
		US- 5,715,236	02-03-1998	Gilhousen et al.	
		US- 5,748,891	05-05-1998	Fleming et al.	
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		US- 5,850,422	12-1998	Chen	
		US- 5,886,652	03-1999	Adachi et al.	
		US- 5,889,767	03-1999	Kimura	
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		US- 5,909,491 A	06-1999	Luo	
		US- 5,920,278	07-06-1999	Tyler et al.	

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		Number-Kind Code ² (if known)			
		US- 5,940,435	08-1999	Hendrickson	
		US- 6,002,708	12-14-1999	Fleming et al.	
		US- 6,026,125	02-15-2000	Larrick, Jr. et al.	
		US- 6,041,051	03-2000	Doshi et al.	
		US- 6,064,697	05-2000	Yoshikawa	
		US- 6,067,648	05-2000	Hunter et al.	
		US- 6,069,887	05-2000	Geiger et al.	
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		US- 6,122,291 A	09-2000	Robinson et al.	
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		US- 6,172,965	01-2001	Edwards et al.	
		US- 6,177,903 B1	01-2001	Fullerton et al.	
		US- 6,181,687	01-2001	Chatschik Bisdikian	
		US- 6,212,230	04-2001	Rybicki et al.	
		US- 6,232,910 B1	05-15-2001	Bell et al.	
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		Number-Kind Code ² (if known)			
		US- 6,239,741 B1	05-2001	Fontana et al.	
		US- 6,246,277 B1	06-12-2001	Aiello et al.	
		US- 6,292,153 B1	09-18-2001	Aiello et al.	
		US- 6,347,084 B1	02-12-2002	Hulyalkar et al.	
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		US- 6,497,656 B1	12-24-2002	Evans et al.	
		US- 6,505,032 B1	01-07-2003	McCorkle et al.	
		US- 6,510,150	01-2003	Chiu Y Ngo	
		US- 6,549,567 B1	04-15-2003	Fullerton	
		US- 6,574,266 B1	06-2003	Jacobus Haartsen	
		US- 6,597,683	07-2003	Gehring et al.	

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		US- 6,621,857 B1	09-2003	Belotserkovsky et al	
		US- 6,625,229 B2	09-2003	Dress et al.	
		US- 6,628,642	09-2003	Mile'n et al.	
		US- 6,633,558	10-2003	Cho et al.	
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		US- 6,707,828	03-2004	Chuah et al.	
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		US- 2001/0055353	12-2001	Rybicki et al.	
		US- 2002/0018458	02-14-2002	Aiello et al.	
		US- 2002/0131370	09-2002	Chuah et al.	
		US- 2003/0054764 A1	03-2003	McCorkle et al.	
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Sheet 6	of 6	Attorney Docket Number	00124

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		"802.1D and 802.1Q Bridging Conformance" TA Document IEEE802.17-11Jul2001/040:3, 1394 Trade Association, 7 pages, October 2001.	
		Brunoi Pattan, A Brief Exposure to Ultra-Wideband Signaling, Microwave Journal, December 2003, 5 pages.	
		David G. Leeper, Wireless Data Blaster, Scientific American, May 2002, Pages 65-69.	
		Dr. James P. K. Gilb, Wireless Multimedia... A Guide to the IEEE 802.15.3 Standard, March 2004, Pages 23-63.	
		AETHER WIRE & LOCATION, INC., ROBERT FLEMING et al., "Low-Power, Miniature, Distributed Position Location and Communication Devices Using Ultra-Wideband, Nonsinusoidal Communication Technology," Semi-Annual Technical Report Prepared for: ARPA/FBI, July 1995, Pages 1-40.	
		AETHER WIRE & LOCATION, INC., ROBERT FLEMING et al., "Integrated, Low-Power, Ultra-Wideband Transceivers for Distributed Position Location and Communication," Technical Abstracts of Proposal to Defense Advanced Research Projects Agency (DARPA), Part I - Technical Proposal, 1998, Pages 1-52.	
		HENNING F. HARMUTH et al., "Large-Current, Short-Length Radiator for Nonsinusoidal Waves," IEEE International Symposium on Electromagnetic Compatibility, 1983, Pages 453-456.	
		HENNING F. HARMUTH, "Applications of Walsh functions in communications," IEEE Spectrum, November 1969, Pages 82-91.	
		HENNING F. HARMUTH, "Frequency-Sharing and Spread-Spectrum Transmission with Large Relative Bandwidth," IEEE Transactions on Electromagnetic Compatibility, Vol. EMC-20, No. 1, February 1978, Pages 232-239.	
		HENNING F. HARMUTH, "Fundamental Limits for Radio Signals With Large Bandwidth," IEEE Transactions on Electromagnetic Compatibility, Vol. EMC-23, No. 1, February 1981, Pages 37-43.	

Examiner Signature		Date Considered	
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